IN THE CLAIMS:

Please amend the claims to read as indicated herein.

- 1. (Original) An illumination system, comprising:
- a first light source and a second light source, each of which are for providing light having a wavelength ≤ 193 nm; and

an optical element,

wherein said first light source illuminates a first area of said optical element and said second light source illuminates a second area of said optical element.

- 2. (Original) The illumination system of claim 1, wherein said optical element has a plurality of raster elements for partitioning light from said first and said second light source into a plurality of light channels.
- 3. (Original) The illumination system of claim 2, wherein said first area and said second area are spatially separated from one another.
- 4. (Original) The illumination system of claim 2, wherein said first area includes a first subset of said plurality of raster elements, and said second area includes a second subset of said plurality of raster elements.
- 5. (Original) The illumination system of claim 2, wherein said first light source comprises a first collecting optical element.
- 6. (Original) The illumination system of claim 5, wherein said second light source comprises a second collecting optical element.
- 7. (Original) The illumination system of claim 5, wherein said plurality of raster elements includes a first subset of said plurality of raster elements in said first area, in an arrangement adapted to said first collecting optical element.

- 8. (Original) The illumination system of claim 7,
- wherein said second light source includes a second collecting optical element, and wherein said plurality of raster elements includes a second subset of said plurality of raster elements in said second area, in an arrangement adapted to said second collecting optical element.
- 9. (Original) The illumination system of claim 2, wherein said optical element is a first optical element, and said plurality of raster elements is a first plurality of raster elements, and
- wherein said illumination system further comprises a second optical element with a second plurality of raster elements for receiving said plurality of light channels from said first plurality of raster elements.
- 10. (Original) The illumination system of claim 9,
- wherein said first area includes a first subset of said first plurality of raster elements for partitioning light from said first light source into a plurality of light channels,
- wherein said second plurality of raster elements receives said plurality of light channels such that a member of said first plurality raster elements and a member of said second plurality of raster elements are each assigned to a member of said plurality of light channels, and
- wherein said plurality of light channels is configured to provide an illumination pattern in an exit pupil of said illumination system.
- 11. (Original) The illumination system of claim 10, wherein said illumination pattern is in a shape selected from the group consisting of a circular shape and an annular shape.
 - 12. (Original) The illumination system of claim 10,
 - wherein said plurality of light channels is a first plurality of light channels, and said illumination pattern is a first illumination pattern,
 - wherein said second area includes a second subset of said first plurality of raster elements

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for partitioning light from said second light source into a second plurality of light channels,

wherein said second plurality of raster elements receives said first plurality of light channels in a first subset of said second plurality of raster elements, and receives said second plurality of light channels in a second subset of said second plurality of raster elements, such that a member of said second subset of said first plurality of raster elements and a member of said second subset of said second plurality of raster elements are each assigned to a member of said second plurality of light channels, and

wherein said second plurality of light channels is configured to provide a second illumination pattern in said exit pupil.

- 13. (Original) The illumination system of claim 12, wherein said second illumination pattern is in a shape selected from the group consisting of a circular shape and an annular shape.
- 14. (Original) The illumination system of claim 12, wherein said first illumination pattern has a shape that is different from that of said second illumination pattern.
- 15. (Original) The illumination system of claim 2, wherein said first light source comprises a spectral filter.
- 16. (Original) The illumination system of claim 15, wherein said second light source comprises a spectral filter.
- 17. (Original) The illumination system of claim 2, wherein said first light source comprises a reflecting optical element.
- 18. (Original) The illumination system of claim 17, wherein said second light source comprises a reflecting optical element.
 - 19. (Original) The illumination system of claim 2,

wherein said first light source includes a first collector for collecting first light from a light emitter and focusing said first light to a first focus point,

- wherein said second light source includes a second collector for collecting second light from a light emitter and focusing said second light to a second focus point, and wherein said first focus point is at a position that is substantially identical to that of said second focus point.
- 20. (Original) The illumination system of claim 19, wherein said first area and said second area are spatially separated from one another.
- 21. (Original) The illumination system of claim 19, wherein said first area comprises a first plurality of first raster elements and said second area comprises a second plurality of first raster elements.
- 22. (Original) The illumination system of claim 19, wherein said plurality of raster elements includes a first subset of said plurality of raster elements in said first area, in an arrangement adapted to said first collecting optical element.
- 23. (Original) The illumination system of claim 22, wherein said plurality of raster elements includes a second subset of said plurality of raster elements in said second area, in an arrangement adapted to said second collecting optical element.
 - 24. (Original) The illumination system of claim 19,
 - wherein said optical element is a first optical element, and said plurality of raster elements is a first plurality of raster elements, and
 - wherein said illumination system further comprises a second optical element with a second plurality of raster elements for receiving said plurality of light channels from said first plurality of raster elements.
 - 25. (Original) The illumination system of claim 24, wherein said first area includes a first subset of said first plurality of raster elements for

partitioning light from said first light source into a plurality of light channels, wherein said second plurality of raster elements receives said plurality of light channels, such that a member of said first plurality raster elements and a member of said second plurality of raster elements are each assigned to a member of said plurality of light channels, and

- wherein said plurality of light channels is configured to provide an illumination pattern in an exit pupil of said illumination system.
- 26. (Original) The illumination system of claim 25, wherein said illumination pattern is in a shape selected from the group consisting of a circular shape and an annular shape.
 - 27. (Original) The illumination system of claim 25,
 - wherein said plurality of light channels is a first plurality of light channels, and said illumination pattern is a first illumination pattern,
 - wherein said second area includes a second subset of said first plurality of raster elements for partitioning light from said second light source into a second plurality of light channels,
 - wherein said second plurality of raster elements receives said first plurality of light channels in a first subset of said second plurality of raster elements, and receives said second plurality of light channels in a second subset of said second plurality of raster elements, such that a member of said second subset of said first plurality of raster elements and a member of said second subset of said second plurality of raster elements are each assigned to a member of said second plurality of light channels, and
 - wherein said second plurality of light channels is configured to provide a second illumination pattern in said exit pupil.
- 28. (Original) The illumination system of claim 27, wherein said second illumination pattern is in a shape selected from the group consisting of a circular shape and an annular shape.
 - 29. (Original) The illumination system of claim 27, wherein said first illumination pattern

has a shape that is different from that of said second illumination pattern.

- 30. (Original) The illumination system of claim 19, wherein said first collecting optical element has a shape selected from the group consisting of a cylindrical shape and an elliptic shape.
- 31. (Original) The illumination system of claim 30, wherein said second collecting optical element has a shape selected from the group consisting of a cylindrical shape and an elliptic shape.
 - 32. (Original) An projection exposure apparatus, comprising:
 - a plane for accommodating a mask;
 - the illumination system of claim 2, for illuminating said plane;
 - a carrier system for accommodating a light-sensitive object; and
 - a projection objective lens for imaging said mask on said light-sensitive object.
 - 33. (Original) A light source device comprising:
 - a first light source for emitting a first light bundle having a wavelength ≤193 nm; a second light source for emitting a second light bundle having a wavelength ≤193 nm; and an optical unit having a first plurality of raster elements for redirecting each of said first
 - and second light bundles to produce a combined light bundle.
- 34. (Withdrawn) The light source device of claim 33, further comprising an optical element having a second plurality of raster elements for focusing one of said first and second light bundles onto said optical unit.
 - 35. (Withdrawn) The light source device of claim 34,
 - wherein said combined light bundle is directed to an optical device for illuminating a field in an image plane,

wherein said optical device includes a third plurality raster elements, and wherein said first, second and third plurality of raster elements each contain the same

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number of raster elements.

- 36. (Original) A projection exposure apparatus, comprising:
- a plane for accommodating a mask;
- an illumination system for illuminating said plane with light having a wavelength ≤ 193 nm, wherein said illumination system has a plurality of light sources;
- a carrier system for accommodating a light-sensitive object; and
- a projection objective lens for imaging said mask on said light sensitive object.
- 37. (Original) The projection exposure apparatus of claim 36,
- wherein said plurality of light sources includes a first light source and a second light source, and
- wherein said first light source is operated under a first operating condition and said second light source is operated under a second operating condition, and wherein said first operating condition is different from said second operating condition.
- 38. (Original) The projection exposure apparatus of claim 36,
- wherein said plurality of light sources comprises a first light source for emitting a first light beam and a second light source for emitting a second light beam, and
- wherein said first and said second light beams are incoherently superimposed to reduce a degree of coherence of said illumination system.
- 39. (Original) A method for production of microelectronic components, comprising using the projection exposure apparatus of claim 36.
 - 40. (Original) A projection exposure apparatus, comprising:
 - a plurality of light sources for providing light having a wavelength ≤ 193 nm; and an optical element for collecting and condensing said light to illuminate a reticle in an area to expose a pattern on a substrate.
 - 41. (Original) A projection exposure apparatus, comprising:

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a first light source for emitting light having a first wavelength \leq 193 nm; and a second light source emitting light having a second wavelength \leq 193 nm, wherein said first wavelength is different from said second wavelength.